

0590

0211



#2

OIPE

ENTERED

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/081,119

DATE: 03/08/2002
 TIME: 15:11:03

Input Set : D:\Seqlist.txt
 Output Set: N:\CRF3\03082002\J081119.raw

4 <110> APPLICANT: Reinhard, Christoph
 5 Jefferson, Anne B.
 6 Chan, Vivien W.
 8 <120> TITLE OF INVENTION: TTK in Diagnosis and as a Therapeutic
 9 Target in Cancer
 11 <130> FILE REFERENCE: 16932.002
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/081,119
 14 <141> CURRENT FILING DATE: 2002-02-21
 16 <150> PRIOR APPLICATION NUMBER: 60/289,813
 17 <151> PRIOR FILING DATE: 2001-02-21
 19 <160> NUMBER OF SEQ ID NOS: 38
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 20
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: synthesized oligonucleotide
 31 <400> SEQUENCE: 1
 32 cggaatcaag tcttctagct 20
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 21
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Artificial Sequence
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: synthesized oligonucleotide
 42 <400> SEQUENCE: 2
 43 ggttgctcaa aagttggtat g 21
 45 <210> SEQ ID NO: 3
 46 <211> LENGTH: 24
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Artificial Sequence
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: synthesized oligonucleotide
 53 <400> SEQUENCE: 3
 54 cgggaaatcg tgcgtgacat taag 24
 56 <210> SEQ ID NO: 4
 57 <211> LENGTH: 24
 58 <212> TYPE: DNA
 59 <213> ORGANISM: Artificial Sequence
 61 <220> FEATURE:
 62 <223> OTHER INFORMATION: synthesized oligonucleotide
 64 <400> SEQUENCE: 4

RAW SEQUENCE LISTING

DATE: 03/08/2002

PATENT APPLICATION: US/10/081,119

TIME: 15:11:03

Input Set : D:\Seqlist.txt

Output Set: N:\CRF3\03082002\J081119.raw

```

65 tgatctcctt ctgcatcctg tcgg                24
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 25
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: synthesized oligonucleotide
75 <400> SEQUENCE: 5
76 gggactcttc caaatgggca tgact                25
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 25
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: synthesized oligonucleotide
86 <400> SEQUENCE: 6
87 tccagtaact cttgcgttcc catgg                25
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 25
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: synthesized oligonucleotide
97 <400> SEQUENCE: 7
98 tcagtacggg taaaccttct caggg                25
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 25
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: synthesized oligonucleotide
108 <400> SEQUENCE: 8
109 ggtacccttg cgttctcaat gacct                25
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 25
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: synthesized oligonucleotide
119 <400> SEQUENCE: 9
120 taggtctttg gccggtgatg ggtag                25
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 25
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: synthesized oligonucleotide
130 <400> SEQUENCE: 10
131 gctgggtagt ggccggtttc tggat                25

```

RAW SEQUENCE LISTING DATE: 03/08/2002
 PATENT APPLICATION: US/10/081,119 TIME: 15:11:03

Input Set : D:\Seqlist.txt
 Output Set: N:\CRF3\03082002\J081119.raw

```

133 <210> SEQ ID NO: 11
134 <211> LENGTH: 25
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: synthesized oligonucleotide
141 <400> SEQUENCE: 11
142 actcatctgg ctgggctatg gtggt                25
144 <210> SEQ ID NO: 12
145 <211> LENGTH: 25
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: synthesized oligonucleotide
152 <400> SEQUENCE: 12
153 tgggtggtatc gggtcggtct actca                25
155 <210> SEQ ID NO: 13
156 <211> LENGTH: 3866
157 <212> TYPE: DNA
158 <213> ORGANISM: Homo sapien
160 <220> FEATURE:
161 <221> NAME/KEY: CDS
162 <222> LOCATION: (1026)...(3551)
164 <221> NAME/KEY: misc_feature
165 <222> LOCATION: (0)...(0)
166 <223> OTHER INFORMATION: TTK
168 <400> SEQUENCE: 13
169 ggaattcctt tttttttttt tttgagatgg agtttcactc ttgttggccca ggctggagtg 60
170 caatggcaca atctcagctt actgcaacct ccgcctcccg ggttcaagcg attctcctgc 120
171 ctacagcctt caagtagctg ggattacagg catgtgccac caccctggc taactaattt 180
172 cttttctatt tagtagagat ggggtttcac catgttggtc aggctggtct tgaactcctg 240
173 acctcagtg atccacttgc ctggccctcc caaagtgcta ggattacagc cgtgaaactg 300
174 tgcctggctg attctttttt tgttggttga tttttgaaac aggttctccc ttggtcgccc 360
175 aggctggagt gcagtgggtc gatcttggct cactataacc tccacctctt ggtttcaagt 420
176 gacctcctca ctttagcctc ctgagtagct gtgattacag gcgtgcacca ccacaccg 480
177 ctaatttttg tattttttatt agagacaggg ttccaccatg ttggccaggc tgttctcaaa 540
178 ctctctggact caagggatcc gcctgcctcc acttcccaaa gtcccgagat tacagggtgtg 600
179 agtcaccatg cctgacctta taattcttaa gtcatttttt ctggtccatt tcttcttag 660
180 ggtcctcaca acaaatctgc attaggcggg acaataatcc ttaacttcat gattcacaaa 720
181 aggaagatga agtgattcat gatttagaaa ggggaagtag taagccact gcacactcct 780
182 ggatgatgat cctaaatcca gatacagtaa aaatggggtg tgggaaggta gaatacaaaa 840
183 ttttggttaa attaattatc taaatatcta aaaacatttt tggatacatt gttgatgtga 900
184 atgtaagact gtacagactt cctagaaaac agtttgggtt ccatcttttc atttccccag 960
185 tgcagttttc tgtagaaatg gaatccgagg atttaagtgg cagagaattg acaattgatt 1020
186 ccata atg aac aaa gtg aga gac att aaa aat aag ttt aaa aat gaa gac 1070
187 Met Asn Lys Val Arg Asp Ile Lys Asn Lys Phe Lys Asn Glu Asp
188 1 5 10 15
190 ctt act gat gaa cta agc ttg aat aaa att tct gct gat act aca gat 1118
191 Leu Thr Asp Glu Leu Ser Leu Asn Lys Ile Ser Ala Asp Thr Thr Asp

```

RAW SEQUENCE LISTING

DATE: 03/08/2002

PATENT APPLICATION: US/10/081,119

TIME: 15:11:03

Input Set : D:\Seqlist.txt

Output Set: N:\CRF3\03082002\J081119.raw

192		20		25		30		
194	aac	tcg	gga	act	gtt	aac	caa	att atg atg atg gca aac aac cca gag 1166
195	Asn	Ser	Gly	Thr	Val	Asn	Gln	Ile Met Met Met Ala Asn Asn Pro Glu
196				35				40 45
198	gac	tg	ttg	agt	ttg	ttg	ctc	aaa cta gag aaa aac agt gtt ccg cta 1214
199	Asp	Trp	Leu	Ser	Leu	Leu	Leu	Lys Leu Glu Lys Asn Ser Val Pro Leu
200				50				55 60
202	agt	gat	gct	ctt	tta	aat	aaa	ttg att ggt cgt tac agt caa gca att 1262
203	Ser	Asp	Ala	Leu	Leu	Asn	Lys	Leu Ile Gly Arg Tyr Ser Gln Ala Ile
204				65				70 75
206	gaa	gcg	ctt	ccc	cca	gat	aaa	tat ggc caa aat gag agt ttt gct aga 1310
207	Glu	Ala	Leu	Pro	Pro	Asp	Lys	Tyr Gly Gln Asn Glu Ser Phe Ala Arg
208	80							85 90 95
210	att	caa	gtg	aga	ttt	gct	gaa	tta aaa gct att caa gag cca gat gat 1358
211	Ile	Gln	Val	Arg	Phe	Ala	Glu	Leu Lys Ala Ile Gln Glu Pro Asp Asp
212					100			105 110
214	gca	cgt	gac	tac	ttt	caa	atg	gcc aga gca aac tgc aag aaa ttt gct 1406
215	Ala	Arg	Asp	Tyr	Phe	Gln	Met	Ala Arg Ala Asn Cys Lys Lys Phe Ala
216					115			120 125
218	ttt	gtt	cat	ata	tct	ttt	gca	caa ttt gaa ctg tca caa ggt aat gtc 1454
219	Phe	Val	His	Ile	Ser	Phe	Ala	Gln Phe Glu Leu Ser Gln Gly Asn Val
220					130			135 140
222	aaa	aaa	agt	aaa	caa	ctt	ctt	caa aaa gct gta gaa cgt gga gca gta 1502
223	Lys	Lys	Ser	Lys	Gln	Leu	Leu	Gln Lys Ala Val Glu Arg Gly Ala Val
224					145			150 155
226	cca	cta	gaa	atg	ctg	gaa	att	gcc ctg cgg aat tta aac ctc caa aaa 1550
227	Pro	Leu	Glu	Met	Leu	Glu	Ile	Ala Leu Arg Asn Leu Asn Leu Gln Lys
228	160							165 170 175
230	aag	cag	ctg	ctt	tca	gag	gag	gaa aag aag aat tta tca gca tct acg 1598
231	Lys	Gln	Leu	Leu	Ser	Glu	Glu	Glu Lys Lys Asn Leu Ser Ala Ser Thr
232					180			185 190
234	gta	tta	act	gcc	caa	gaa	tca	ttt tcc ggt tca ctt ggg cat tta cag 1646
235	Val	Leu	Thr	Ala	Gln	Glu	Ser	Phe Ser Gly Ser Leu Gly His Leu Gln
236					195			200 205
238	aat	agg	aac	aac	agt	tgt	gat	tcc aga gga cag act act aaa gcc agg 1694
239	Asn	Arg	Asn	Asn	Ser	Cys	Asp	Ser Arg Gly Gln Thr Thr Lys Ala Arg
240					210			215 220
242	ttt	tta	tat	gga	gag	aac	atg	cca cca caa gat gca gaa ata ggt tac 1742
243	Phe	Leu	Tyr	Gly	Glu	Asn	Met	Pro Pro Gln Asp Ala Glu Ile Gly Tyr
244					225			230 235
246	cgg	aat	tca	ttg	aga	caa	act	aac aaa act aaa cag tca tgc cca ttt 1790
247	Arg	Asn	Ser	Leu	Arg	Gln	Thr	Asn Lys Thr Lys Gln Ser Cys Pro Phe
248	240					245		250 255
250	gga	aga	gtc	cca	gtt	aac	ctt	cta aat agc cca gat tgt gat gtg aag 1838
251	Gly	Arg	Val	Pro	Val	Asn	Leu	Leu Asn Ser Pro Asp Cys Asp Val Lys
252					260			265 270
254	aca	gat	gat	tca	gtt	gta	cct	tgt ttt atg aaa aga caa acc tct aga 1886
255	Thr	Asp	Asp	Ser	Val	Val	Pro	Cys Phe Met Lys Arg Gln Thr Ser Arg
256					275			280 285

RAW SEQUENCE LISTING

DATE: 03/08/2002

PATENT APPLICATION: US/10/081,119

TIME: 15:11:03

Input Set : D:\Seqlist.txt

Output Set: N:\CRF3\03082002\J081119.raw

```

258 tca gaa tgc cga gat ttg gtt gtg cct gga tct aaa cca agt gga aat 1934
259 Ser Glu Cys Arg Asp Leu Val Val Pro Gly Ser Lys Pro Ser Gly Asn
260      290      295      300
262 gat tcc tgt gaa tta aga aat tta aag tct gtt caa aat agt cat ttc 1982
263 Asp Ser Cys Glu Leu Arg Asn Leu Lys Ser Val Gln Asn Ser His Phe
264      305      310      315
266 aag gaa cct ctg gtg tca gat gaa aag agt tct gaa ctt att att act 2030
267 Lys Glu Pro Leu Val Ser Asp Glu Lys Ser Ser Glu Leu Ile Ile Thr
268 320      325      330      335
270 gat tca ata acc ctg aag aat aaa acg gaa tca agt ctt cta gct aaa 2078
271 Asp Ser Ile Thr Leu Lys Asn Lys Thr Glu Ser Ser Leu Leu Ala Lys
272      340      345      350
274 tta gaa gaa act aaa gag tat caa gaa cca gag gtt cca gag agt aac 2126
275 Leu Glu Glu Thr Lys Glu Tyr Gln Glu Pro Glu Val Pro Glu Ser Asn
276      355      360      365
278 cag aaa cag tgg caa gct aag aga aag tca gag tgt att aac cag aat 2174
279 Gln Lys Gln Trp Gln Ala Lys Arg Lys Ser Glu Cys Ile Asn Gln Asn
280      370      375      380
282 cct gct gca tct tca aat cac tgg cag att ccg gag tta gcc cga aaa 2222
283 Pro Ala Ala Ser Ser Asn His Trp Gln Ile Pro Glu Leu Ala Arg Lys
284      385      390      395
286 gtt aat aca gag cag aaa cat acc act ttt gag caa cct gtc ttt tca 2270
287 Val Asn Thr Glu Gln Lys His Thr Thr Phe Glu Gln Pro Val Phe Ser
288 400      405      410      415
290 gtt tca aaa cag tca cca cca ata tca aca tct aaa tgg ttt gac cca 2318
291 Val Ser Lys Gln Ser Pro Pro Ile Ser Thr Ser Lys Trp Phe Asp Pro
292      420      425      430
294 aaa tct att tgt aag aca cca agc agc aat acc ttg gat gat tac atg 2366
295 Lys Ser Ile Cys Lys Thr Pro Ser Ser Asn Thr Leu Asp Asp Tyr Met
296      435      440      445
298 agc tgt ttt aga act cca gtt gta aag aat gac ttt cca cct gct tgt 2414
299 Ser Cys Phe Arg Thr Pro Val Val Lys Asn Asp Phe Pro Pro Ala Cys
300      450      455      460
302 cag ttg tca aca cct tat ggc caa cct gcc tgt ttc cag cag caa cag 2462
303 Gln Leu Ser Thr Pro Tyr Gly Gln Pro Ala Cys Phe Gln Gln Gln Gln
304      465      470      475
306 cat caa ata ctt gcc act cca ctt caa aat tta cag gtt tta gca tct 2510
307 His Gln Ile Leu Ala Thr Pro Leu Gln Asn Leu Gln Val Leu Ala Ser
308 480      485      490      495
310 tct tca gca aat gaa tgc att tcg gtt aaa gga aga att tat tcc ata 2558
311 Ser Ser Ala Asn Glu Cys Ile Ser Val Lys Gly Arg Ile Tyr Ser Ile
312      500      505      510
314 tta aag cag ata gga agt gga ggt tca agc aag gta ttt cag gtg tta 2606
315 Leu Lys Gln Ile Gly Ser Gly Gly Ser Ser Lys Val Phe Gln Val Leu
316      515      520      525
318 aat gaa aag aaa cag ata tat gct ata aaa tat gtg aac tta gaa gaa 2654
319 Asn Glu Lys Lys Gln Ile Tyr Ala Ile Lys Tyr Val Asn Leu Glu Glu
320      530      535      540
322 gca gat aac caa act ctt gat agt tac cgg aac gaa ata gct tat ttg 2702

```

VERIFICATION SUMMARY

DATE: 03/08/2002

PATENT APPLICATION: US/10/081,119

TIME: 15:11:04

Input Set : D:\Seglist.txt

Output Set: N:\CRF3\03082002\J081119.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number